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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/600,356	06/23/2003	Sang-Hag Lee	SEC.1059	7099
20987 7	590 06/29/2005		EXAM	INER
VOLENTINE	FRANCOS, & WH	MOORE, KARLA A		
ONE FREEDOM SQUARE 11951 FREEDOM DRIVE SUITE 1260 RESTON, VA 20190			ART UNIT	PAPER NUMBER
			1763	
			DATE MAILED: 06/29/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	لمه	8-				
	Application No.	Applicant(s)				
Office Action Summary	10/600,356	LEE, SANG-HAG				
Office Action Summary	Examiner	Art Unit				
The MAN INC DATE of this communication as	Karla Moore	1763				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 23.	<u>June 2003</u> .					
	is action is non-final.					
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closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims .						
4) Claim(s) 1-5 is/are pending in the application.						
• • • • • • • • • • • • • • • • • • • •	4a) Of the above claim(s) is/are withdrawn from consideration.					
	 ☐ Claim(s) is/are allowed. ☐ Claim(s) <u>1-5</u> is/are rejected. ☐ Claim(s) is/are objected to. ☐ Claim(s) are subject to restriction and/or election requirement. 					
Application Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on <u>23 June 2003</u> is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 	Paper No(s)/Mail Da	ate atent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:	atent Application (1 10-102)				



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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-5 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,347,918 to Blahnik.
- 3. Blahnik discloses semiconductor manufacturing equipment in Figures 4-8, comprising: a plurality of interconnected chambers including a load-lock chamber (87,89), and at least one process chamber (95,97,99,101) in which a wafer is to be processed; a gate (see Figure 5, 49a-f; column 4, rows 33-34) interposed between a pair of adjacent ones of said chambers and by which the chambers of said pair are connected, said gate constituting an open passageway along which the chambers of said pair are connected, said gate constituting an open passageway along which a wafer is transferred between the chambers of said pair, and said gate defining doorways (Figure 5, 57 and 59) that lead into a respective one of the chambers of said pair, the doorways each being sized to admit a semiconductor wafer therethrough; and a gate valve (11b9, 11b10,11b11,11b12) disposed in said gate, said gate valve comprising a plurality of doors (Figures 4 and 6, 21b and 23b), and a driving unit (column 4, rows 55-64) operative to concurrently position said doors over said doorways, respectively, and thereby establish a plurality of discrete seals between the pair of chambers connected by the gate.
- 4. With respect to claim 2, said driving unit comprises a fluid-actuated cylinder connected to each of said doors (column 4, rows 9-24 and 55-64).
- With respect to claim 3, said gate adjoins said process chamber (see Figures 4-8).

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6. With respect to claim 4, said plurality of chambers include a transfer chamber (81) interposed

between said load-lock chamber and said at least one process chamber, said transfer chamber having an

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internal space constituting said passageway, and comprising a robot (85) operative to transfer a wafer

along said passageway from said load-lock chamber to said at least one process chamber.

7. With respect to claim 5, said gate adjoins said transfer chamber and one of said process

chambers (see Figure 8).

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

USP 6,079,693 discloses an isolation valve with a pair of doors.

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Karla Moore whose telephone number is 571.272.1440. The examiner can normally be

reached on Monday-Friday, 8:30am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Parviz Hassanzadeh can be reached on 571.272.1435. The fax phone number for the organization

where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC)

at 866-217-9197 (toll-free).

Karlà Moore Patent Examiner

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24 June 2005